

# GULLIVER B100 SERIES

BURNERS FROM 15 TO 296 KW  
UP TO 100% BIOFUEL COMPATIBILITY



BIOFUEL  
100% READY

**RIELLO**  
Energy For Life







## **RIELLO GULLIVER B100: THE BURNER READY FOR THE ENERGY TRANSITION**

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**GULLIVER B100 BURNERS ARE CHARACTERIZED BY THEIR COMPATIBILITY WITH BIOFUEL BLENDS OF UP TO 100% WITHOUT COMPROMISING PERFORMANCE. THE GULLIVER B100 RANGE IS COMPATIBLE WITH THE MAIN BIOFUELS ON THE MARKET TODAY:**

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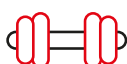


### **FAME FUELS:**

Also known as biodiesel, FAME fuels are obtained from vegetable oils or animal fats through a process called transesterification. FAME fuels represent "first generation biofuels."

### **HVO FUELS:**

Hydrotreated Vegetable Oils (HVO) fuels, also known as renewable fuels, are obtained through a process of hydrogenation of vegetable oils or animal fats. This process produces a high-quality biofuel with excellent stability and superior performance compared to FAME fuels.



The design and selected raw materials of our Gulliver B100 bring product robustness and safe operation. We use high-quality, durable materials specially selected to withstand the specific characteristics of biofuels. We have introduced gaskets and hoses made of Viton, a material that offers excellent chemical and thermal resistance, to achieve the tight seal required for biofuel use.

In addition, we have subjected the products to rigorous durability testing and extensive verifications to simulate prolonged use and to be able to offer optimal and long-lasting performance.

### **SPECIFIC BIOFUEL FEATURES:**

- FUEL PUMP TESTED FOR B100 HEATING OILS
- VITON HOSES AND GASKETS
- CONTROL BOX OPTIMIZED WITH ADDITIONAL SAFETY FUNCTIONS

## FOCUS: BIOFUEL

Biofuels are liquid fuels produced from biomass, i.e. from non-fossil sources. Their high potential in terms of decarbonizing heating production lies in their ability to be “carbon neutral”, as the carbon dioxide emitted during combustion has been absorbed by the source material during its cultivation.

In addition, biofuels, defined as second-generation or advanced biofuels, come from the processing of plant residues, used oils and organic waste. They do not consume land used for food production and promote a circular economy: recycling waste by converting it into a source of energy has a low impact on greenhouse gas emission.

Today, biofuels are a good solution for decarbonising buildings that are heated with liquid fuels such as fuel oil or paraffin. In Europe, they could be a solution for users who live far from urban areas – according to the latest Eurostat, 22.5% of the population of the EU 27 live in homes located in rural areas.

If the end user does not wish to change the heating system, replace the terminals or modernize the network replacing the oil burner with a biofuel burner can be a quick and cost-effective solution.

**RIELLO IS READY TO OFFER THE MARKET A RANGE OF INNOVATIVE SOLUTIONS THAT GIVE FLEXIBILITY TO RESPOND TO THE DECARBONIZATION PROCESS. OUR RANGE OF BURNERS INCLUDES SOLUTIONS CAPABLE OF OPERATING WITH BLENDS OF FUEL OIL AND BIOFUEL, AND WITH 100% VEGETABLE BIOFUEL (FAME AND HVO).**



## COLLECTION OF USED COOKING OIL

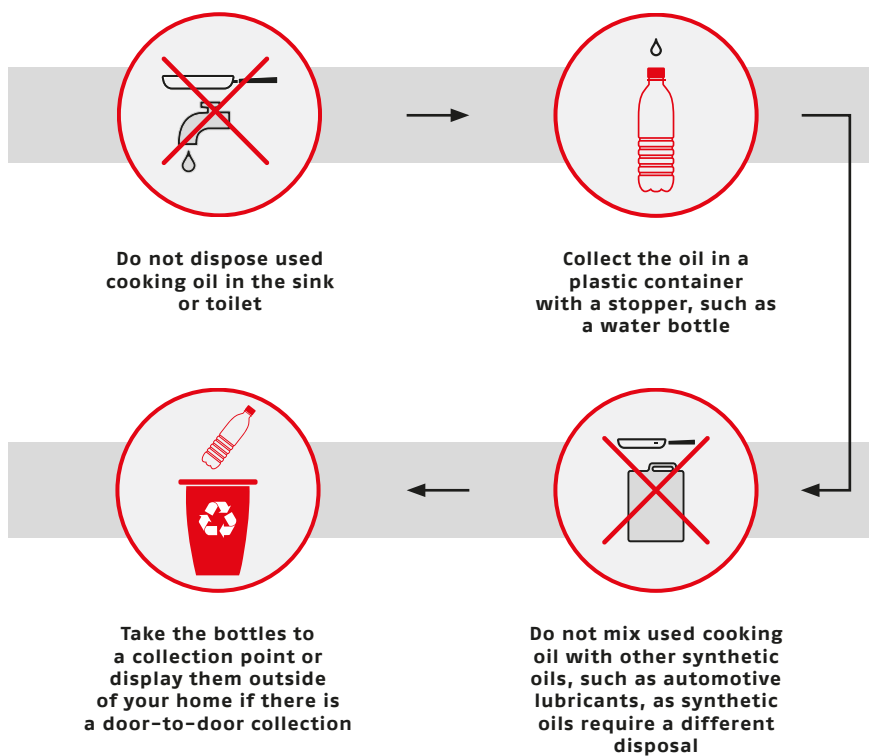
### A VIRTUOUS BEHAVIOR TO REDUCE POLLUTION AND DEPENDENCE ON FOSSIL FUELS

**Cooking oil** is a raw material for the production of second-generation biofuels. However, this source is often **disposed improperly and becomes extremely harmful to domestic drains and sewage systems, as well as an extremely harmful pollutant for water.** Proper disposal in households is still not common practice. This recycling would allow to grow the quantity of raw material needed to produce new biofuels.

**THE BURNERS IN THE NEW RIELLO GULLIVER B100 RANGE ARE COMPATIBLE WITH FUELS OF UP TO 100% PLANT-BASED FUELS (FAME AND HVO). AN IMPORTANT FIRST STEP TOWARDS ACHIEVING ENVIRONMENTAL SUSTAINABILITY OBJECTIVES AND THE DECARBONISATION UNDERTAKEN BY THE EUROPEAN UNION.**

### BEST PRACTICE FOR RECYCLING USED COOKING OIL

If used cooking oil is collected and properly recycled, the availability of biofuels can be increased.



## GULLIVER RG/RGD STANDARD EMISSIONS

This range of burners, with ratings up to 296 kW, is ideal for residential or commercial applications. They provide optimum combustion efficiency and reliability while maintaining the same performance as the standard oil models from which they are derived.



### TECHNICAL DATA

DESCRIPTION	Heat output		Total electrical power	Electric power supply	Note
	kW	kg/h	kW	Ph/V/Hz	
<b>SINGLE STAGE</b>					
RG0.R	16.6-27.3	1.4-2.3	0.290	1/230/50	78 mm head length, with pre-welder
RG0.R	16.6-27.3	1.4-2.3	0.290	1/230/50	120 mm head length, with pre-welder
RG2	47-119	4-10	0.180	1/230/50	
RG1RK	15-60	1.3-5	0.290	1/230/50	Conical head
RG3	83-178	7-15	0.390	1/230/50	
RG4S	118.5-237	10-20	0.390	1/230/50	Starting with reduced power
<b>DUAL STAGE</b>					
RG3D	65/83-178	5.5/7-15	0.390	1/230/750	
RG4D	106/130-237	9/11-20	0.390	1/230/50	
RG5D	95/142-296	8/12-25	0.470	1/230/50	

## GULLIVER BGK/BGD LOW NOX EMISSIONS

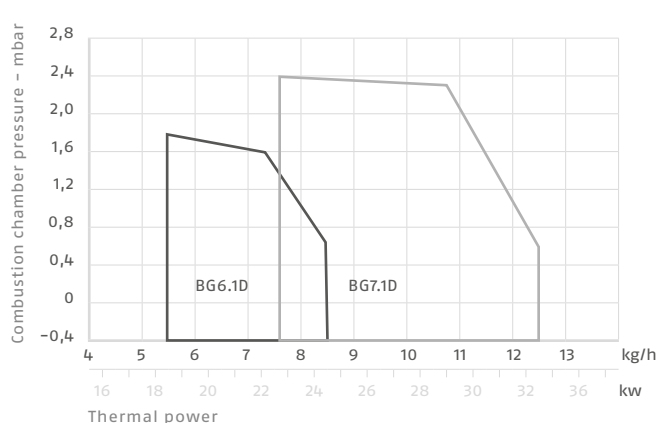
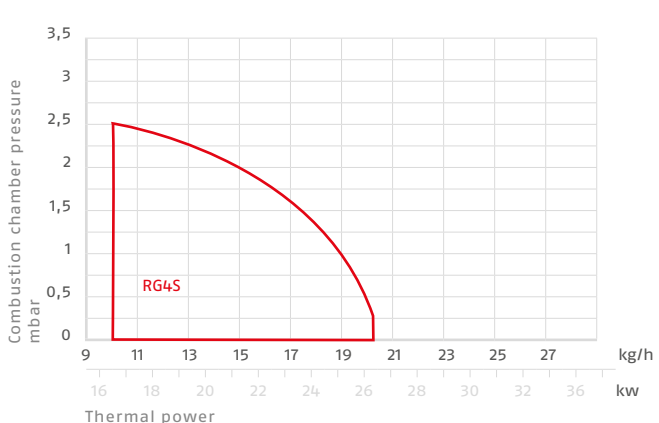
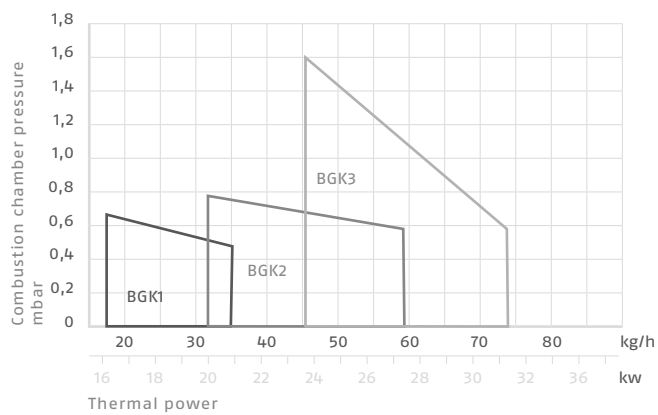
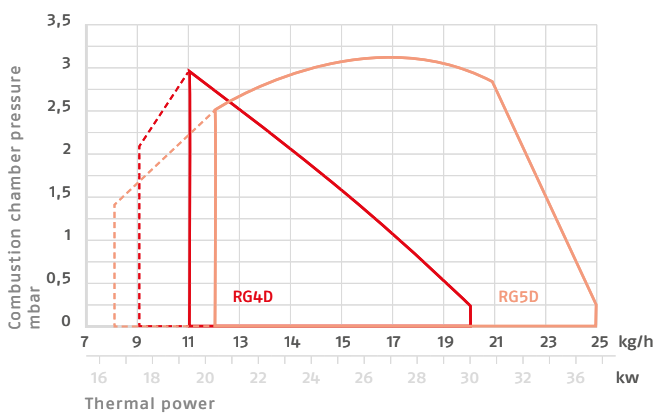
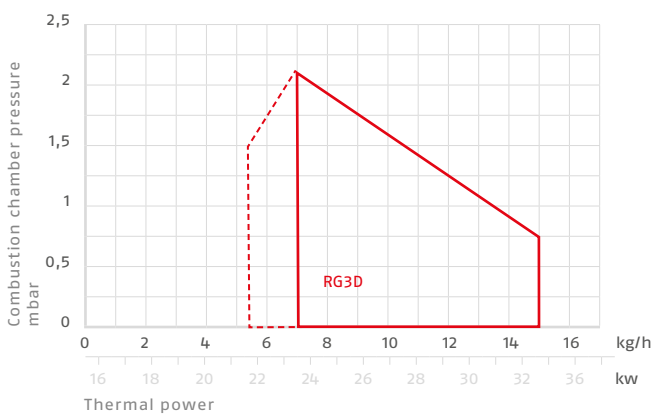
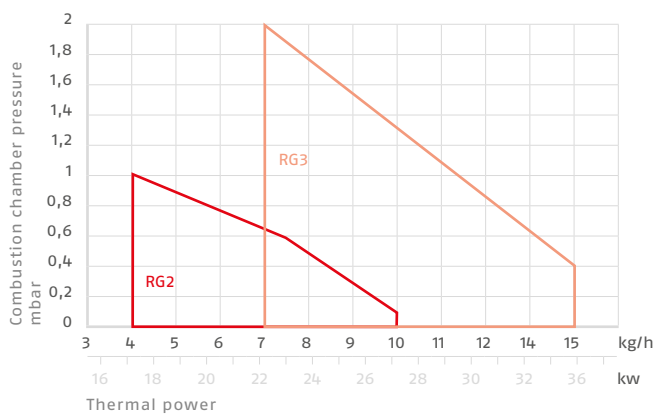
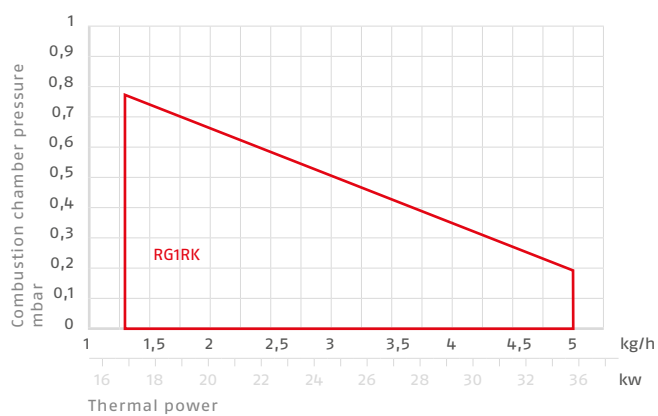
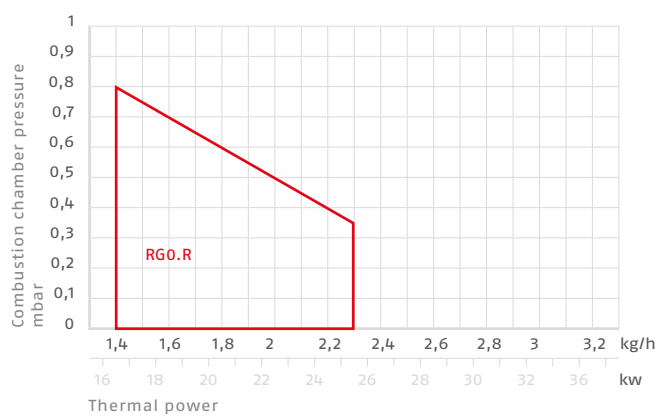
Designed with advanced combustion technology, this range of Gulliver burners offers outstanding performance with NOx emissions as low as 120mg. With power ratings up to 149 kW, they are particularly suitable for applications that require compliance with emission constraints.



### TECHNICAL DATA

DESCRIPTION	Heat output		Total electrical power	Electric power supply
	kW	kg/h	kW	Ph/V/Hz
<b>SINGLE STAGE</b>				
BGK1	17.8-35.6	1.5-3	0.250	1/230/50
BGK2	32-59.3	2.7-5	0.250	1/230/50
BGK3	45-73	3.8-6.15	0.460	1/230/50
<b>DUAL STAGE</b>				
BG6.1D	53.8/65.8-104	4.5/5.5-8.7	0.39	1/230/50
BG7.1D	77.7/92-149.5	6.5/7.7-12.5	0.47	1/230/50

**FIRING RATES**



# RIELLO

RIELLO S.p.A.  
Via Ing. Pilade RIELLO, 7  
37045 Legnago (VR) Italy  
tel. +39 0442 630111



GULLIVER B100



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Since the Company is constantly engaged in the production improvement,  
the aesthetic and dimensional features, the technical data, the equipment and the accessories can be changed.

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